

Abstracts

InP heterojunction bipolar transistor decision circuits

L. Samoska, R. Pullela, B. Agarwal, D. Mensa, Q. Lee, V. Kaman, J. Guthrie and M.J. Rodwell.
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We have designed and built 30 Gb/s master-slave D-flip-flop circuits using InGaAs-InAlAs HBT's. The HBT devices have a β of 30, and f_{max} and f_T of 160 and 106 GHz, respectively. We discuss methods of testing decision circuits when bit error rate testing is not available at high data rates.

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